

# Premier Environmental Designs

Steven Gonzalez, RS  
701 B Navarro Drive  
College Station, Texas 77845  
Office/Fax: (979) 764-7158  
Cell: (979) 575-2416

## Soil / Site Evaluation

*Subdivision/Owner:* Valley View Subdivision

*Site Address:* 3861 Marshall Lane

*City:* Chappell Hill

*County:* Washington

*State:* TX

*Zip:* 77426

*Tracts:* 1 - 6      *Block:*      *Phase:*

*Property ID:* 16444

*Date:* 12/2/2020



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I certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

A handwritten signature in blue ink, appearing to read "Steven M. Gonzalez".

Signature: \_\_\_\_\_

# OSSF Site Evaluation

## Topography

Slope:  Flat (Under 2%)     Slight (3%-15%)     Moderate (16%-30%)     Severe (Over 30%)

Vegetation:     Grass/Brush     Lightly Wooded     Heavily Wooded

Site Drainage:     Poor     Adequate     Good     Other

### Other Topographic Information:

Note: Slopes above 30% are considered unsuitable for standard subsurface disposal. If slope is less than 2%, steps shall be taken to ensure there is adequate surface drainage over any subsurface disposal field. Slopes less than 15% are considered acceptable for surface irrigation. Sloped land with greater than 15% slope may be acceptable if it is properly landscaped and terraced to minimize runoff. Any such landscaping shall be addressed in detail in both the design and planning materials.

## Flood Plain

FEMA Map 48477C0350C eff 8/16/2011

Site Is Located:     Outside The 100 Year Flood Plain  
 Partially Inside The 100 Year Flood Plain  
 Inside The 100 Year Flood Plain  
 Inside The 100 Year Flood Plain And Floodway

## Water Supply

Public Water Supply     Community Water Supply     Private Water Supply

If Private Water Supply:     Supplied By A Well     Other Means

If Well Is On The Property:    Distance To Treatment Plant  
Distance To Disposal Field

Wells On Neighboring Property:     Yes     No

Note: If neighboring wells exist, they must meet setback distance requirements

## Surface Water

On or Near Property:     Stream/Creek     Pond/Lake     River  
Distance From Treatment Plant:    From Disposal Field:

## Soil Evaluation

(Most Restrictive Layer/2 Soil Borings At Opposite Ends Of Proposed Disposal Area)

Soil Texture and Classification: Silty Clay - Class IV

Subsurface Color and Indication: Brown - Good Drainage and Aeration

Indication Of Seasonal Ground Water Table: No

Gravel Analysis: 0 %

Note: Any soil profile that has the gray colors (with redox features) indicative of water tables within 24 inches below the proposed trench bottom, or has ground water visible in the test bore hole less than 48 inches below ground surface, shall be deemed unsuitable for standard subsurface disposal. *Although Class III soil is considered acceptable, it is not recommended for a soil absorption system.*

# Soil Profiles

Soil Boring #1						
Depth (Feet)	Texture Class	Soil Texture	Structure (Blocky, Platy, or Massive)	Drainage (Redox Features or water table)	Restrictive Horizon	Observations
0	III	Clay Loam	Blocky		No	Dark Brown
1						Brown
2		Light Brown				
3	III	Sandy Clay Loam				
4						
5						

Soil Boring #2						
Depth (Feet)	Texture Class	Soil Texture	Structure (Blocky, Platy, or Massive)	Drainage (Redox Features or water table)	Restrictive Horizon	Observations
0	III	Clay Loam	Blocky		No	Dark Brown
1						Brown
2		Light Brown				
3	III	Sandy Clay Loam				
4						
5						

Soil Boring #3						
Depth (Feet)	Texture Class	Soil Texture	Structure (Blocky, Platy, or Massive)	Drainage (Redox Features or water table)	Restrictive Horizon	Observations
0	III	Clay Loam	Blocky		No	Dark Brown
1						Brown
2		Light Brown				
3	III	Sandy Clay Loam				
4						
5						

Soil Boring #4						
Depth (Feet)	Texture Class	Soil Texture	Structure (Blocky, Platy, or Massive)	Drainage (Redox Features or water table)	Restrictive Horizon	Observations
0	III	Clay Loam	Blocky		No	Dark Brown
1						Brown
2		Light Brown				
3	III	Sandy Clay Loam				
4						
5						

Soil Boring #5						
Depth (Feet)	Texture Class	Soil Texture	Structure (Blocky, Platy, or Massive)	Drainage (Redox Features or water table)	Restrictive Horizon	Observations
0	III	Clay Loam	Blocky			Dark Grey
1						
2	III	Silty Clay Loam				Grey
3						
4						
5						

Soil Boring #6						
Depth (Feet)	Texture Class	Soil Texture	Structure (Blocky, Platy, or Massive)	Drainage (Redox Features or water table)	Restrictive Horizon	Observations
0	III	Clay Loam	Blocky			Dark Grey
1						
2	III	Silty Clay Loam				Grey
3						
4						
5						

Soil Boring #7						
Depth (Feet)	Texture Class	Soil Texture	Structure (Blocky, Platy, or Massive)	Drainage (Redox Features or water table)	Restrictive Horizon	Observations
0	III	Clay Loam	Blocky			Dark Grey
1						
2	III	Silty Clay Loam				Grey
3						
4						
5						

Soil Boring #8						
Depth (Feet)	Texture Class	Soil Texture	Structure (Blocky, Platy, or Massive)	Drainage (Redox Features or water table)	Restrictive Horizon	Observations
0	III	Clay Loam	Blocky			Dark Grey
1						
2	III	Silty Clay Loam				Grey
3						
4						
5						

Soil Boring #9						
Depth (Feet)	Texture Class	Soil Texture	Structure (Blocky, Platy, or Massive)	Drainage (Redox Features or water table)	Restrictive Horizon	Observations
0	III	Clay Loam	Blocky			Dark Grey
1						
2	III	Silty Clay Loam				Grey
3						
4						
5						

# OSSF Site Evaluation Summary

Summary			
This Site Is Suitable For	Treatment	Disposal	
	<input checked="" type="checkbox"/> Septic Tank		<input type="checkbox"/> Absorptive Drainfield
			<input checked="" type="checkbox"/> Lined E-T
			<input checked="" type="checkbox"/> Unlined E-T
<input checked="" type="checkbox"/> Pumped Effluent Drainfield			
<input checked="" type="checkbox"/> Leaching Chamber			
<input type="checkbox"/> Gravelless Pipe			
<input checked="" type="checkbox"/> Low Pressure Dosing			
<input type="checkbox"/> Mound			
<input type="checkbox"/> Soil Substitution			
<input checked="" type="checkbox"/> Drip Irrigation			
<input checked="" type="checkbox"/> Septic Tank / Filter		<input type="checkbox"/> Absorptive Drainfield	
		<input checked="" type="checkbox"/> Lined E-T	
		<input checked="" type="checkbox"/> Unlined E-T	
		<input checked="" type="checkbox"/> Leaching Chamber	
		<input type="checkbox"/> Gravelless Pipe	
		<input checked="" type="checkbox"/> Low Pressure Dosing	
		<input type="checkbox"/> Mound	
		<input checked="" type="checkbox"/> Surface Application	
		<input checked="" type="checkbox"/> Soil Substitution	
		<input checked="" type="checkbox"/> Drip Irrigation	
<input checked="" type="checkbox"/> Secondary Treatment (Aerobic)		<input type="checkbox"/> Absorptive Drainfield	
		<input checked="" type="checkbox"/> Lined E-T	
		<input checked="" type="checkbox"/> Unlined E-T	
		<input checked="" type="checkbox"/> Leaching Chamber	
		<input type="checkbox"/> Gravelless Pipe	
		<input checked="" type="checkbox"/> Low Pressure Dosing	
		<input type="checkbox"/> Mound	
		<input checked="" type="checkbox"/> Surface Application	
		<input checked="" type="checkbox"/> Soil Substitution	
		<input checked="" type="checkbox"/> Drip Irrigation	
<input checked="" type="checkbox"/> Secondary Treatment / Filter	<input checked="" type="checkbox"/> Drip Irrigation		

## Notes

The soil is generally classified as a Class III Clay Loam topsoil with Silty Clay Loam soil below. However, each individual lot will require a soil / site evaluation at each specific drainfield / spray field location. All septic systems must meet the minimum requirements of Title 30, TAC Chapter 285 regarding On-Site Sewage Facilities and any additional requirements of Washington County. All planning materials for an on-site sewage facility must be done by a Professional Engineer P.E or Registered Sanitarian R.S.

